

G1 O,S

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 15:33:47 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      503 TO ITERATE

100.0% PROCESSED      503 ITERATIONS          13 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:    8715 TO     11405
PROJECTED ANSWERS:       44 TO      476
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L2 13 SEA SSS SAM L1

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=> s 11 sss full
FULL SEARCH INITIATED 15:33:53 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      10065 TO ITERATE
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100.0% PROCESSED      10065 ITERATIONS          367 ANSWERS
SEARCH TIME: 00.00.01
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L3 367 SEA SSS FUL L1

	SINCE FILE ENTRY	TOTAL SESSION
COST IN U.S. DOLLARS		
FULL ESTIMATED COST	166.94	167.15

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FILE 'CPLUS' ENTERED AT 15:33:59 ON 24 APR 2006
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FILE COVERS 1907 - 24 Apr 2006 VOL 144 ISS 18  
FILE LAST UPDATED: 23 Apr 2006 (20060423/ED)

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<http://www.cas.org/infopolicy.html>

=> s 13  
L4              7 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2005:1240775 CAPLUS

DOCUMENT NUMBER: 144:17202

TITLE: Novel 2-amino-4-quinazolinones and 2-amino-4-oxoquinazolones as LXR (liver X receptor) nuclear receptor binding compounds with partial agonistic properties

INVENTOR(S): Deuschle, Ulrich; Loebbert, Ralph; Blume, Beatrix; Koegel, Manfred; Kremoser, Claus; Kober, Ingo; Bauer, Ulrike; Hermann, Kristina; Albers, Michael

PATENT ASSIGNEE(S): Germany

SOURCE: U.S. Pat. Appl. Publ., 52 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

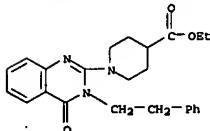
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005261319	A1	20051124	US 2005-76163	20050309
EP 1407774	A1	20040414	EP 2002-20255	20020910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
CA 2498655	AA	20040325	CA 2003-2498655	20030702
WO 2004024162	A1	20040325	WO 2003-EP7067	20030702
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BP, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
AU 2003296861	A1	20040430	AU 2003-296861	20030702
JP 2006502169	T2	20060119	JP 2004-515046	20030702
WO 2004024161	A1	20040325	WO 2003-EP10036	20030910
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NO, NZ, OM, PO, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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EP 1536799	A1	20050608	EP 2003-753402	20030910
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PRIORITY APPLN. INFO.: EP 2002-20255			A 20020910	
			WO 2003-EP7067	A2 20030702

L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
ACCESSION NUMBER: 2005:49093 CAPLUS

DOCUMENT NUMBER: 143:43903

TITLE: Preparation of piperazinylguanidoquinazolinones as melanocortin-4 receptor (MCR-4) agonists with reduced bioaccumulation

INVENTOR(S): Boyce, Rustam S.; Speake, Jason D.; Phillips, James

PATENT ASSIGNEE(S): Chiron Corporation, USA; GlaxoSmithKline

SOURCE: PCT Int. Appl., 199 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

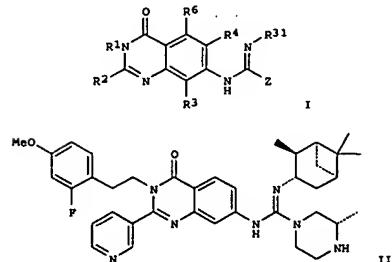
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

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WO 2005051391	A1	20050609	WO 2004-US39020	20041119
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RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BP, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
US 2005192297	A1	20050901	US 2004-993147	20041119
PRIORITY APPLN. INFO.: EP 2003-523336P			US 2003-523336P	P 20031119
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OTHER SOURCE(S): MARPAT 143:43903  
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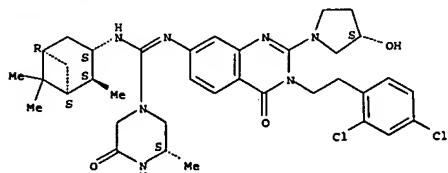
**AB** Title compds. [I; R<sub>1</sub> = (substituted) aralkyl, heteroarylalkyl, aryl, heteroaryl, cycloalkyl, heterocycloalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkyl; R<sub>2</sub> = H, (substituted) aralkyl, heteroarylalkyl, alkoxy, alkylamino, dialkylamino, aryl, heteroaryl, heterocycl, cycloalkyl, heterocycloalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkyl; R<sub>3</sub>, R<sub>4</sub>, R<sub>6</sub> = H, Cl, F, Br, Iodo, OH, NH<sub>2</sub>, cyano, NO<sub>2</sub>, (substituted) alkoxy, alkyl; R<sub>11</sub> = H, (substituted) alkyyl, aryl, alkenyl, alkynyl, cycloalkyl, heteroaryl, heterocycl, heterocyclylalkyl, aralkyl, heteroarylalkyl, cycloalkylalkyl; Z = (substituted) 3-oxopiperazinyl; and tautomers], were prepared. Thus, title compound (II) (preparation via coupling of 6-methylpiperezin-2-one with the corresponding quinazolinylthiourea derivative in the presence of polymer-supported carbodiimide) showed a plasma half life of 1.9 h in mice.

IT 817626-63-4P 817627-28-5P  
817627-30-8P 817627-35-3P 817627-36-4P  
817627-41-1P 817627-42-2P 817627-43-3P  
817627-44-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of piperazinylguanidinoquinazolinones as melanocortin-4 receptor (MCR-4) agonists with reduced bioaccumulation)

RN 817626-63-4 CAPLUS  
CN 1-Piperazinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-[(3S)-3-hydroxy-1-pyrrolidinyl]-4-oxo-7-quinazolinyl]-3-methyl-5-oxo-N'-(1R,2S,3S,5R)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]-, (3S)-(9CI) (CA INDEX NAME)

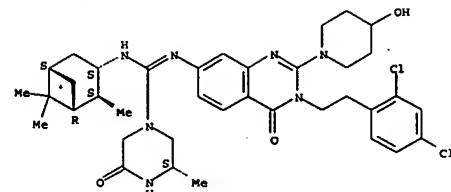
Absolute stereochemistry.



RN 817627-28-4 CAPLUS

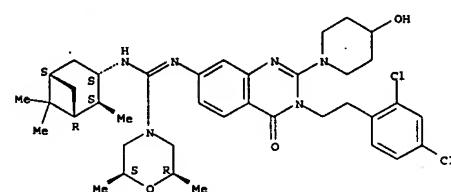
CN 1-Piperazinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-(4-hydroxy-1-piperidinyl)-4-oxo-7-quinazolinyl]-3-methyl-5-oxo-N'-(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]-, (3S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



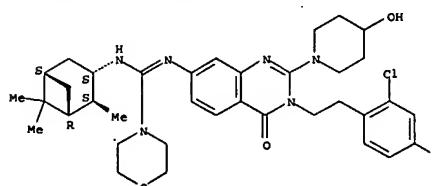
RN 817627-29-5 CAPLUS  
CN 4-Morpholinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-(4-hydroxy-1-piperidinyl)-4-oxo-7-quinazolinyl]-2,6-dimethyl-N'-(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]-, (2R,6S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 817627-30-6 CAPLUS  
CN 4-Morpholinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-(4-hydroxy-1-piperidinyl)-4-oxo-7-quinazolinyl]-N'-(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]- (9CI) (CA INDEX NAME)

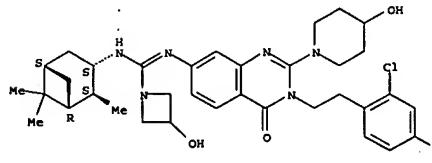
Absolute stereochemistry.



RN 817627-35-3 CAPLUS

CN 1-Azetidinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-(4-hydroxy-1-piperidinyl)-4-oxo-7-quinazolinyl]-3-hydroxy-N'-(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]-, (9CI) (CA INDEX NAME)

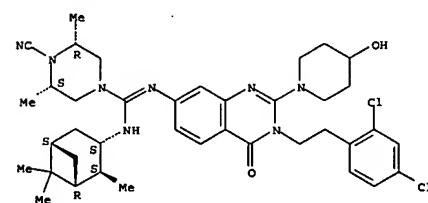
Absolute stereochemistry.



RN 817627-36-4 CAPLUS

CN 1-Piperazinecarboximidamide, 4-cyano-N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-(4-hydroxy-1-piperidinyl)-4-oxo-7-quinazolinyl]-3,5-dimethyl-N'-(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]-, (3R,5S)-(9CI) (CA INDEX NAME)

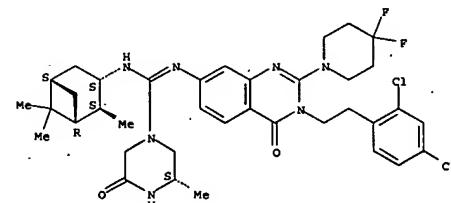
Absolute stereochemistry.



RN 817627-41-1 CAPLUS

CN 1-Piperazinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-(4-hydroxy-1-piperidinyl)-4-oxo-7-quinazolinyl]-2-(4,4-difluoro-1-piperidinyl)-3,5-dimethyl-N'-(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]-, (3S)-(9CI) (CA INDEX NAME)

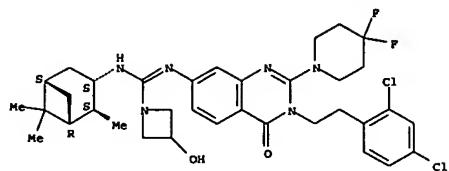
Absolute stereochemistry.



RN 817627-42-2 CAPLUS

CN 1-Azetidinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-(4-hydroxy-1-piperidinyl)-4-oxo-7-quinazolinyl]-3-hydroxy-N'-(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]- (9CI) (CA INDEX NAME)

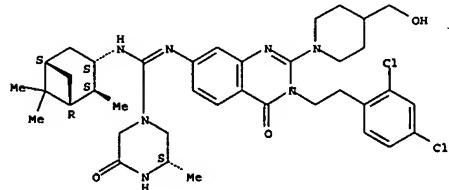
Absolute stereochemistry.



RN 817627-43-3 CAPLUS

CN 1-Piperazinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-[4-(hydroxymethyl)-1-piperidinyl]-4-oxo-7-quinazolinyl]-3-methyl-5-oxo-N'-[(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]-, (3S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 817627-44-4 CAPLUS

CN 1-Metidinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-[4-(hydroxymethyl)-1-piperidinyl]-4-oxo-7-quinazolinyl]-3-hydroxy-N'-(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl-, (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ACCESSION NUMBER: 2005:135412 CAPLUS

DOCUMENT NUMBER: 142:240442

TITLE: Preparation of pyrimidinones as dipeptidyl peptidase IV (DPP-IV) inhibitors

INVENTOR(S): Peng, Jun; Gwaltney, Stephen L., II; Kaldor, Stephen W.; Stafford, Jeffrey A.; Wallace, Michael B.; Zhang, Zhiyuan

PATENT ASSIGNEE(S): Syrrx, Inc., USA

SOURCE: Eur. Pat. Appl., 102 pp.

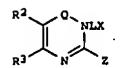
DOCUMENT TYPE: Patent

LANGUAGE: English

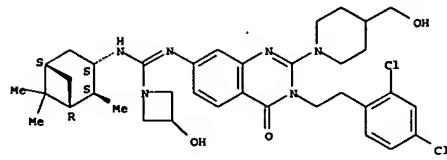
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1506967	A1	20050216	EP 2004-254864	20040812
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AU 2004265341	A1	20050224	AU 2004-265341	20040812
CA 2535619	A1	20050224	CA 2004-2535619	20040812
WO 200501911	A1	20050224	WO 2004-U526265	20040812
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LY, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW: BW, GH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
US 2005065148	A1	20050324	US 2004-918318	20040812
US 2005070530	A1	20050331	US 2004-917955	20040812
US 2005070531	A1	20050331	US 2004-918186	20040812
US 2005070535	A1	20050331	US 2004-918317	20040812
US 2005070706	A1	20050331	US 2004-918326	20040812
US 2005075330	A1	20050407	US 2004-918327	20040812
JP 2005060401	A2	20050310	JP 2004-263071	20040813
PRIORITY APPLN. INFO.:			US 2003-495238P	P 20030813
			WO 2004-US26265	W 20040812

OTHER SOURCE(S): MARPAT 142:240442  
GI

AB Title compds. (I; Q = CO, SO, SO2, C:NR4; Z = halo, perhaloalkyl, amino, Habte



REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

FORMAT

cyano, [substituted] alkyl, cycloalkyl, aryl, heteroaryl, alkylcarbonyl, etc.; R2, R3 = H, halo, perhaloalkyl, amino, cyano, NO2, SH, (substituted) alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aralkyl, heteroarylalkyl, aryl, heteroaryl, etc.; R4 = H, (substituted) alkyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl, aralkyl, heteroaralkyl, bicycloaryl, heterobicycloaryl; L = 0-6 atom linker; X = OH, (substituted) alky, cycloalkyl, heterocycloalkyl, aralkyl, heteroaralkyl, bicycloaryl, heterobicycloaryl, alkylcarbonyl, alkylthiocarbonyl, alkylsulfonyl, aryl, heteroaryl, alkoxy, aryloxy, heteroaryloxy, alkenyl, alkynyl, etc.), were prep. Thus, 2-(5-bromo-2-chloro-6-oxo-6H-pyrimidin-1-ylmethyl)benzonitrile (prepn. given), (R)-3-aminopiperidine dihydrochloride, and NaHCO3 were stirred together for 90 min. in EtOH to give 62% 2-[2-(3-aminopiperidin-1-yl)-5-bromo-6-oxo-6H-pyrimidin-1-ylmethyl]benzonitrile. I inhibited DPP-IV with  $K_i = 10^{-9}$  M to 10 $-5$  M.

IT 844842-48-48 844842-51-99 844842-53-19

844842-56-49 844842-58-69 844842-60-69

844842-62-29 844842-64-49 844842-66-69

844842-68-89 844842-70-29 844842-74-69

844842-76-82 844842-78-79 844842-79-19

844842-80-42 844842-81-52 844842-82-69

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844843-10-39 844843-11-49 844843-12-59

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844843-31-89 844843-32-99 844843-33-09

844843-34-19 844843-35-29 844843-36-39

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(claimed compound; preparation of pyrimidinones as dipeptidyl peptidase IV inhibitors)

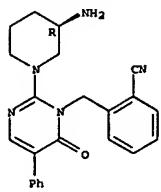
RN 844842-48-4 CAPLUS

CN Benzonitrile, 2-[2-((3R)-3-amino-1-piperidinyl)-6-oxo-5-phenyl-1(6H)-pyrimidinyl]methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

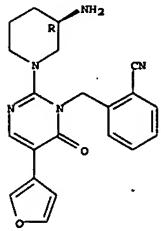
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RN 844842-51-9 CAPLUS

CN Benzonitrile,  
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Absolute stereochemistry.



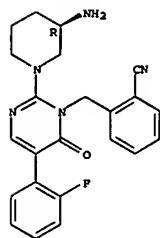
RN 844842-52-1 CAPLUS

CN Benzonitrile,  
2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(2-fluorophenyl)-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

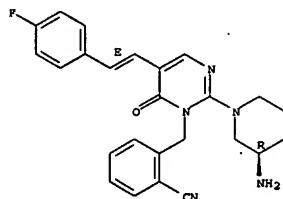
L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 844842-56-4 CAPLUS

CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-[(1E)-2-(4-fluorophenyl)ethenyl]-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.

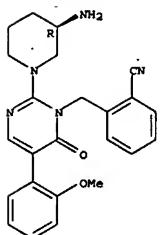
RN 844842-58-6 CAPLUS

CN Benzonitrile,  
2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(2-methoxyphenyl)-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

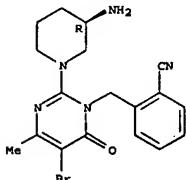
(Continued)



RN 844842-60-0 CAPLUS

CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-bromo-4-methyl-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



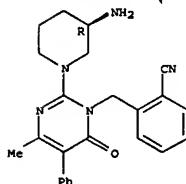
RN 844842-62-2 CAPLUS

CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-4-methyl-6-oxo-5-phenyl-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

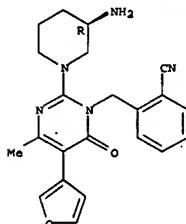
(Continued)



RN 844842-64-4 CAPLUS

CN Benzonitrile,  
2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(3-furanyl)-4-methyl-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

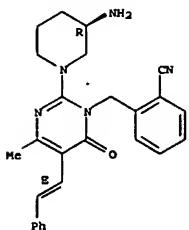


RN 844842-66-6 CAPLUS

CN Benzonitrile,  
2-[(2-[(3R)-3-amino-1-piperidinyl]-4-methyl-6-oxo-5-[(1E)-2-phenylethenyl]-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)Absolute stereochemistry.  
Double bond geometry as shown.

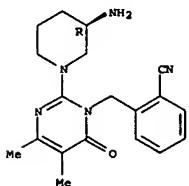
L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 844842-68-8 CAPLUS  
 CN Benzonitrile,  
 2-[(2-[(3R)-3-amino-1-piperidinyl]-4,5-dimethyl-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

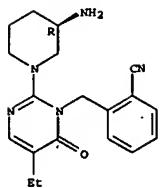
Absolute stereochemistry.



RN 844842-70-2 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-ethyl-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

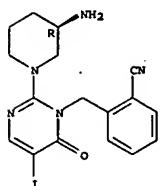
Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 844842-74-6 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-iodo-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

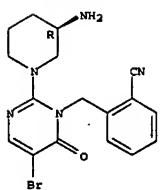
Absolute stereochemistry.



RN 844842-76-8 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-bromo-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

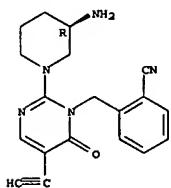
Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



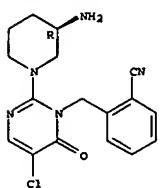
RN 844842-78-0 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-ethynyl-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 844842-79-1 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-chloro-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



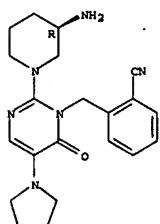
RN 844842-80-4 CAPLUS

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L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

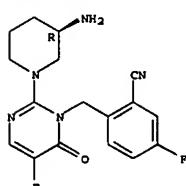
CN Benzonitrile,  
 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-(1-pyrrolidinyl)-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 844842-81-5 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

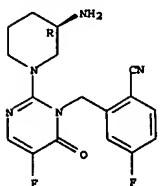


RN 844842-82-6 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro- (9CI) (CA INDEX NAME)

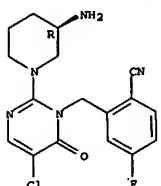
Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

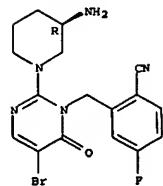
RN 844842-81-7 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-chloro-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

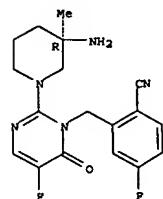
RN 844842-84-8 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-bromo-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

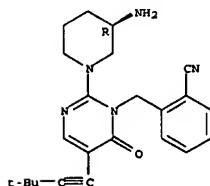
RN 844842-85-9 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-methyl-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

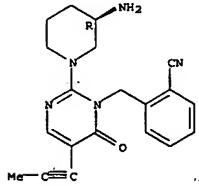
RN 844842-87-1 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(3,3-dimethyl-1-butynyl)-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

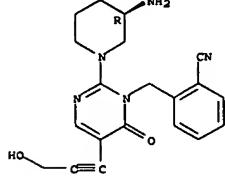
L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 844842-88-2 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-(1-propynyl)-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

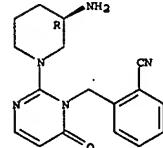
Absolute stereochemistry.

RN 844842-89-3 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(3-hydroxy-1-propynyl)-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

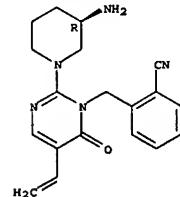
Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
RN 844842-90-6 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 844842-91-7 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-ethenyl-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

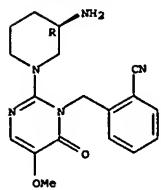
Absolute stereochemistry.

RN 844842-92-8 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-methoxy-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

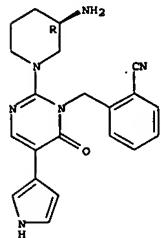
L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 844842-93-9 CAPLUS  
 CN Benzonitrile,  
 2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-(1H-pyrrol-3-yl)-  
 1(6H)-pyrimidinylmethyl] - (9CI) (CA INDEX NAME)

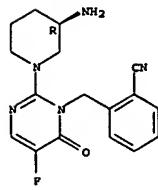
Absolute stereochemistry.



RN 844842-94-0 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-  
 pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

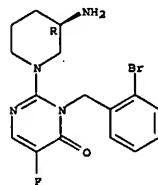
Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 844842-95-1 CAPLUS  
 CN 4(3H)-Pyrimidinone, 2-[(3R)-3-amino-1-piperidinyl]-3-[(2-  
 bromophenyl)methyl]-5-fluoro- (9CI) (CA INDEX NAME)

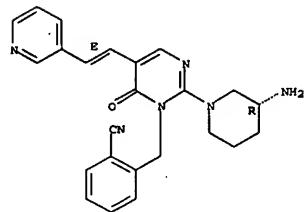
Absolute stereochemistry.



RN 844842-96-2 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-[(1E)-2-(3-  
 pyridinyl)ethenyl]-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry as shown.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

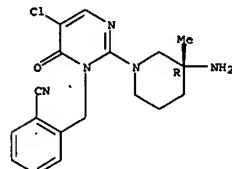


RN 844842-97-3 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-4-phenyl-1(6H)-  
 pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

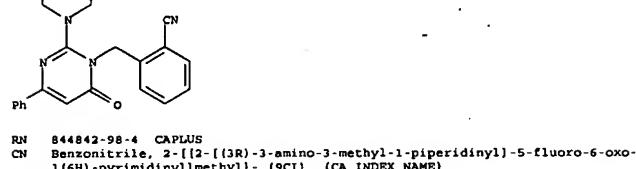
L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

Absolute stereochemistry.



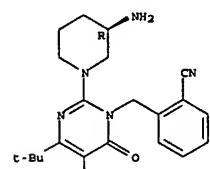
RN 844843-00-1 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-bromo-4-(1,1-  
 dimethylethyl)-6-oxo-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 844842-98-4 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-3-methyl-1-piperidinyl]-5-fluoro-6-oxo-  
 1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 844843-01-2 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-phenyl-1(6H)-  
 pyrimidinyl)methyl], trifluoroacetate (9CI) (CA INDEX NAME)

CM 1  
 CRN 844842-48-4  
 CMF C23 H23 N5 O

Absolute stereochemistry.

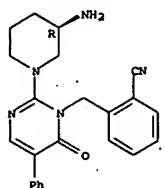
RN 844842-99-5 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-3-methyl-1-piperidinyl]-5-chloro-6-oxo-

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04/24/2006

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



CM 2

CRN 76-05-1  
CMF C2 H F3 O2

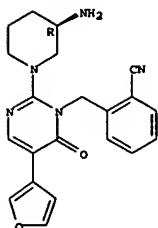
RN 844843-02-3 CAPLUS  
CN Benzonitrile,  
2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(3-furanyl)-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1  
CRN 844842-51-9  
CMF C21 H21 N5 O2

Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



CM 2

CRN 76-05-1  
CMF C2 H F3 O2

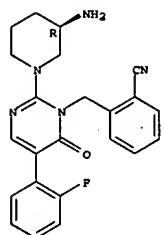
RN 844843-03-4 CAPLUS  
CN Benzonitrile,  
2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(2-fluorophenyl)-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1  
CRN 844842-53-1  
CMF C23 H22 F N5 O

Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

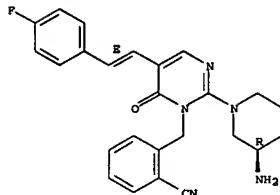
CM 2  
CRN 76-05-1  
CMF C2 H F3 O2

RN 844843-04-5 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-[(1E)-2-(4-fluorophenyl)ethenyl]-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1  
CRN 844842-56-4  
CMF C25 H24 F N5 OAbsolute stereochemistry.  
Double bond geometry as shown.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

CM 2  
CRN 76-05-1  
CMF C2 H F3 O2

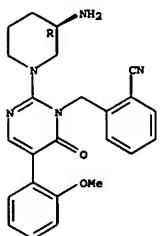
RN 844843-06-7 CAPLUS  
CN Benzonitrile,  
2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(2-methoxyphenyl)-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1  
CRN 844842-58-6  
CMF C24 H25 N5 O2

Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



CM 2

CRN 76-05-1  
CMP C3 H P3 O2RN 844843-08-9 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-bromo-4-methyl-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

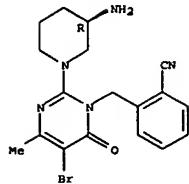
CM 1

CRN 844842-60-0  
CMP C18 H20 Br N5 O

Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



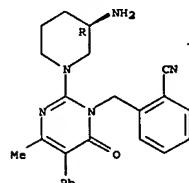
CM 2

CRN 76-05-1  
CMP C2 H P3 O2RN 844843-09-0 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-4-methyl-6-oxo-5-phenyl-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-62-2  
CMP C24 H25 N5 O

Absolute stereochemistry.



L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

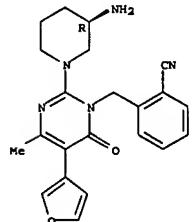
CM 2

CRN 76-05-1  
CMP C2 H P3 O2RN 844843-10-3 CAPLUS  
CN Benzonitrile,  
2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(3-furanyl)-4-methyl-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-64-4  
CMP C22 H23 N5 O2

Absolute stereochemistry.



CM 2

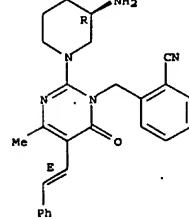
CRN 76-05-1  
CMP C2 H P3 O2

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

RN 844843-11-4 CAPLUS  
CN Benzonitrile,  
2-[(2-[(3R)-3-amino-1-piperidinyl]-4-methyl-6-oxo-5-[(1E)-2-phenylethynyl]-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-66-6  
CMP C26 H27 N5 OAbsolute stereochemistry.  
Double bond geometry as shown.

CM 2

CRN 76-05-1  
CMP C2 H P3 O2RN 844843-12-5 CAPLUS  
CN Benzonitrile,  
2-[(2-[(3R)-3-amino-1-piperidinyl]-4,5-dimethyl-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

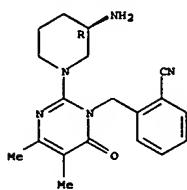
CM 1

CRN 844842-68-8  
CMP C19 H23 N5 O

Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



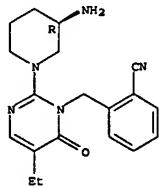
CM 2

CRN 76-05-1  
CMP C2 H F3 O2RN 844843-13-6 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-ethyl-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-70-2  
CMP C19 H23 N5 O

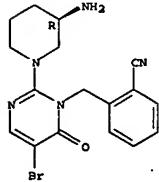
Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
RN 844843-15-8 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-bromo-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-76-8  
CMP C17 H18 Br N5 O

Absolute stereochemistry.



CM 2

CRN 76-05-1  
CMP C2 H F3 O2RN 844843-16-9 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-chloro-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-79-1  
CMP C17 H18 Cl N5 O

Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

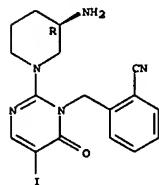
CM 2

CRN 76-05-1  
CMP C2 H F3 O2RN 844843-14-7 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-iodo-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-74-6  
CMP C17 H18 I N5 O

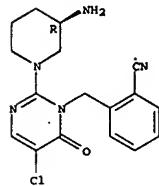
Absolute stereochemistry.



CM 2

CRN 76-05-1  
CMP C2 H F3 O2

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



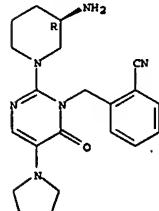
CM 2

CRN 76-05-1  
CMP C2 H F3 O2RN 844843-17-0 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-(1-pyrrolidinyl)-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-80-4  
CMP C21 H26 N6 O

Absolute stereochemistry.



L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

CM 2

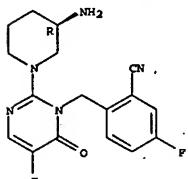
CRN 76-05-1  
CMP C2 H F3 O2

RN 844843-19-2 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-5-fluoro-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-81-5  
CMP C17 H17 F2 N5 O

Absolute stereochemistry.

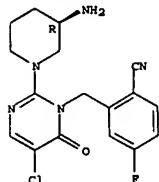


CM 2

CRN 76-05-1  
CMP C2 H F3 O2

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



CM 2

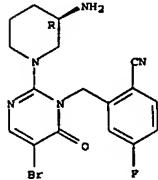
CRN 76-05-1  
CMP C2 H F3 O2

RN 844843-23-8 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-bromo-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-84-8  
CMP C17 H17 Br F2 N5 O

Absolute stereochemistry.



CM 2

Habte

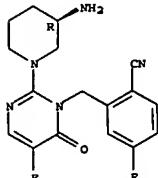
L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 844843-21-6 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-82-6  
CMP C17 H17 F2 N5 O

Absolute stereochemistry.



CM 2

CRN 76-05-1  
CMP C2 H F3 O2

RN 844843-22-7 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-chloro-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-83-7  
CMP C17 H17 Cl F2 N5 O

Absolute stereochemistry.



L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

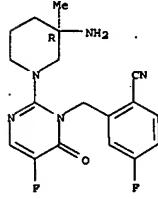
CRN 76-05-1  
CMP C2 H F3 O2

RN 844843-24-9 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-3-methyl-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-85-9  
CMP C18 H19 F2 N5 O

Absolute stereochemistry.



CM 2

CRN 76-05-1  
CMP C2 H F3 O2

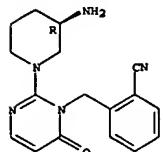
RN 844843-26-1 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

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L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
 CRN 844842-90-6  
 CMF C17 H19 N5 O

Absolute stereochemistry.



CM 2

CRN 76-05-1  
 CMF C2 H P3 O2



RN 844843-27-2 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-ethenyl-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

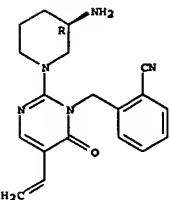
CM 1

CRN 844842-91-7  
 CMF C19 H21 N5 O

Absolute stereochemistry.

(Continued)

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2

CRN 76-05-1  
 CMF C2 H P3 O2



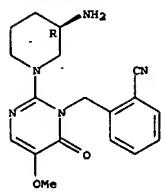
RN 844843-28-3 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-methoxy-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-92-8  
 CMF C18 H21 N5 O2

Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2

CRN 76-05-1  
 CMF C2 H P3 O2



RN 844843-29-4 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-94-0  
 CMF C17 H18 F N5 O

Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CRN 76-05-1  
 CMF C2 H P3 O2

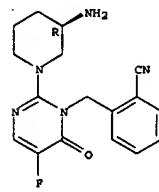


RN 844843-30-8 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-, (2R,3R)-2,3-dihydroxybutanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-94-0  
 CMF C17 H18 F N5 O

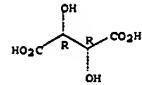
Absolute stereochemistry.



CM 2

CRN 87-69-4  
 CMF C4 H6 O6

Absolute stereochemistry.



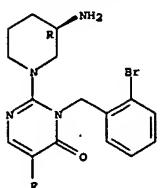
RN 844843-31-8 CAPLUS  
 CN 4-(3H)-Pyrimidinone, 2-[(3R)-3-amino-1-piperidinyl]-3-[(2-bromophenyl)methyl]-5-fluoro-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

04/24/2006

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

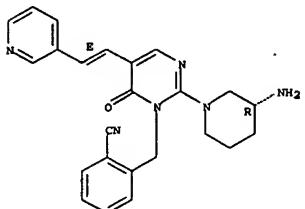
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● x HCl

RN 844843-32-9 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-[(1E)-2-(3-pyridinyl)ethenyl]-1(6H)-pyrimidinyl)methyl]-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.



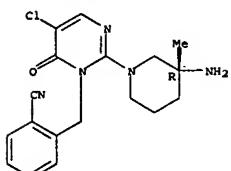
● x HCl

RN 844843-33-0 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-4-phenyl-1(6H)-pyrimidinyl)methyl]-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



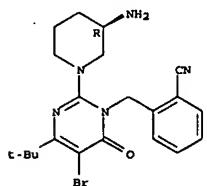
● x HCl

RN 844843-36-3 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-bromo-4-(1,1-dimethylethyl)-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844843-00-1  
CMP C21 H26 Br N5 O

Absolute stereochemistry.



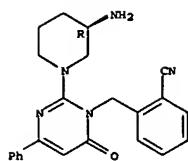
CM 2

CRN 76-05-1  
CMP C2 H F3 O2

Habte

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

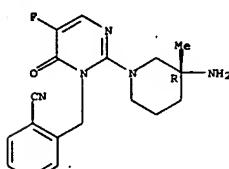
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● x HCl

RN 844843-34-1 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-3-methyl-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● x HCl

RN 844843-35-2 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-3-methyl-1-piperidinyl]-5-chloro-6-oxo-1(6H)-pyrimidinyl)methyl]-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

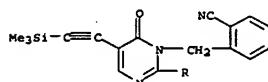
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L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

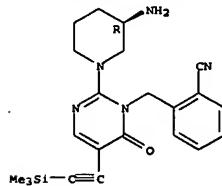


IT 844843-44-3P 844843-72-7P  
RL RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of pyrimidinones as dipeptidyl peptidase IV inhibitors)  
RN 844843-44-3 CAPLUS  
CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-6-oxo-5-((trimethylsilyl)ethynyl)-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)



RN 844843-72-7 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-((trimethylsilyl)ethynyl)-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

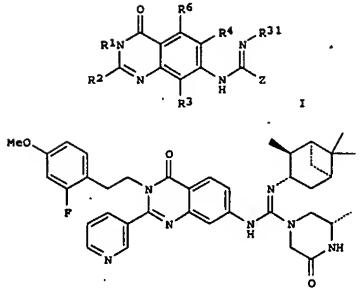
Absolute stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

04/24/2006

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004112793	A1	20041229	WO 2004-US15959	20040521
WO 2004112793	B1	20050310		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BM, GH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, US, VG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004249120	A1	20041229	AU 2004-249120	20040521
CA 2523015	AA	20041229	CA 2004-2523015	20040521
US 2005059662	A1	20050317	US 2004-850967	20040521
PRIORITY APPLN. INFO.:			US 2003-473317P	P 20030523
			US 2003-523336P	P 20031119
			US 2003-524492P	P 20031124
			WO 2004-US15959	W 20040521

OTHER SOURCE(S): MARPAT 142:93848  
GI

AB A variety of small mol., guanidine-containing mols. capable of acting as MC4-R agonists such as I-III (Z1 = CR4, N: Z2 = CRS, N; Z3 = CR6, N; R1 = (un)substituted arylalkyl, heteroarylalkyl, aryl, heteroaryl, etc.; R2 = H, alkyl, aryl, etc.; R3 = H, arylalkyl, aryl, etc.; R4-R6 = H, Cl, I, F, Br, OH, etc.; W = IV (wherein R11, R12 = H, (un)substituted alkyl, aryl, etc.; at least one of R11 and R12 is (un)substituted heteroarylalkyl; R13 = H, (un)substituted aryl, alkyl, etc.; R14 = H, (un)substituted alkyl, cycloalkyl, etc.)) are provided. General procedures used in the synthesis of compds. I-III are described. E.g., a multi-step synthesis of

(1S,2S,3S,5R)-V, was given. The exemplified compds. I-III were tested against MC4-R and exhibited -logEC50 values above about 3. The compds. I are useful in treating MC4-R mediated diseases such as obesity and type II diabetes. The pharmaceutical composition comprising the compound I is disclosed.

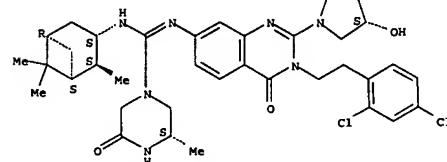
IT 817626-63-4P 817627-28-4P 817627-29-5P  
817627-30-5P 817627-35-3P 817627-36-4P  
817627-41-1P 817627-42-2P 817627-43-3P  
817627-44-4P

RU: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOI (Biological study); PREP (Preparation); USES (Uses)  
(preparation of guanidino-substituted quinazolinone compds. as MC4-R agonists)

RN 817626-63-4 CAPLUS  
CN 1-Piperazinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-[(3S)-3-hydroxy-1-pyrrolidinyl]-4-oxo-7-quinazolinyl]-3-methyl-5-oxo-N'[(1S,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]-, (3S)-(SC1) (CA INDEX NAME)

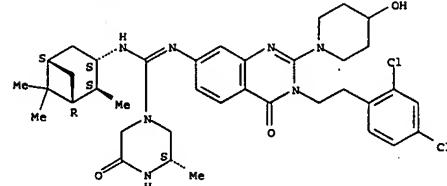
Absolute stereochemistry.

Habte



RN 817627-28-4 CAPLUS  
CN 1-Piperazinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-(4-hydroxy-1-piperidinyl)-4-oxo-7-quinazolinyl]-3-methyl-5-oxo-N'[(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]-, (3S)-(SC1) (CA INDEX NAME)

Absolute stereochemistry.

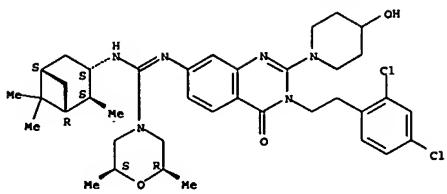


RN 817627-29-5 CAPLUS  
CN 4-Morpholinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-(4-hydroxy-1-piperidinyl)-4-oxo-7-quinazolinyl]-2,6-dimethyl-N'[(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]-, (2R,6S)-(SC1) (CA INDEX NAME)

Absolute stereochemistry.

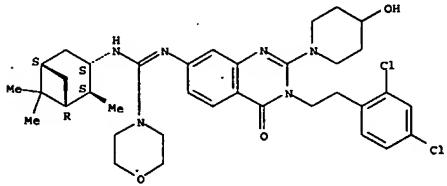
L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 817627-30-8 CAPLUS  
 CN 4-Morpholinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-(4-hydroxy-1-piperidinyl)-4-oxo-7-quinazolinyl]-N'-(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

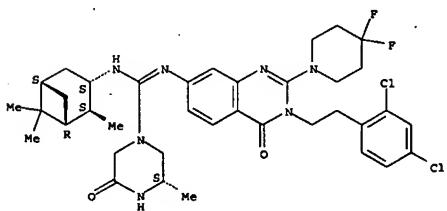


RN 817627-35-3 CAPLUS  
 CN 1-Azetidinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-(4-hydroxy-1-piperidinyl)-4-oxo-7-quinazolinyl]-3-hydroxy-N'-(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

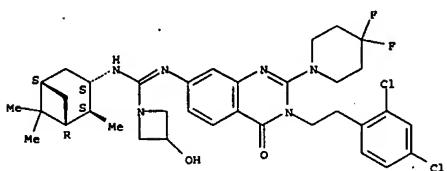
L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 817627-42-2 CAPLUS  
 CN 1-Azetidinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-2-(4,4-difluoro-1-piperidinyl)-3,4-dihydro-4-oxo-7-quinazolinyl]-3-hydroxy-N'-(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

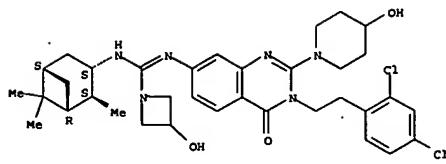


RN 817627-43-3 CAPLUS  
 CN 1-Piperazinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-[4-(hydroxymethyl)-1-piperidinyl]-4-oxo-7-quinazolinyl]-3-methyl-5-oxo-N'-(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

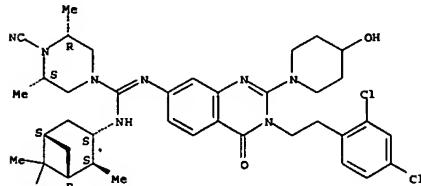
L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 817627-36-4 CAPLUS  
 CN 1-Piperazinecarboximidamide, 4-cyano-N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-(4-hydroxy-1-piperidinyl)-4-oxo-7-quinazolinyl]-3,5-dimethyl-N'-(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]-, (3R,5S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

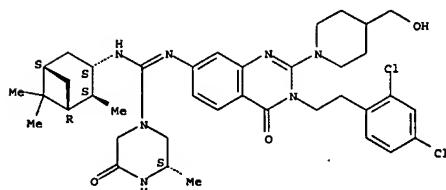


RN 817627-41-1 CAPLUS  
 CN 1-Piperazinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-2-(4,4-difluoro-1-piperidinyl)-3,4-dihydro-4-oxo-7-quinazolinyl]-3-methyl-5-oxo-N'-(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

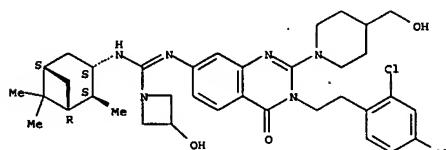
L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 817627-44-4 CAPLUS  
 CN 1-Azetidinecarboximidamide, N-[3-[2-(2,4-dichlorophenyl)ethyl]-3,4-dihydro-2-[4-(hydroxymethyl)-1-piperidinyl]-4-oxo-7-quinazolinyl]-3-hydroxy-N'-(1R,2S,3S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-3-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS FORMAT

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2004:857326 CAPLUS  
 DOCUMENT NUMBER: 141:109639

TITLE: Dipeptidyl peptidase inhibitors  
 INVENTOR(S): Feng, Jun; Gwaltney, Stephen L.; Keldor, Stephen W.; Stefford, Jeffrey A.; Wallace, Michael B.; Zhang, Zhiyuan  
 PATENT ASSIGNEE(S): Syrrx, Inc., USA  
 SOURCE: PCT Int. Appl., 244 pp.  
 CODEN: PIXKD2

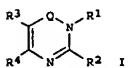
DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087053	A2	20041014	WO 2004-US9217	20040324
WO 2004087053	C1	20041111		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LB, LS, LT, LU, LV, MA, MD, MO, MN, MM, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RM: BM, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, ER, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2518465	AA	20041014	CA 2004-2518465	20040324
US 2004242568	A1	20041202	US 2004-809636	20040324
US 2004242566	A1	20041202	US 2004-809638	20040324
US 2004259870	A1	20041223	US 2004-809637	20040324
US 2005004117	A1	20050106	US 2004-809635	20040324
EP 1608317	A2	20051228	EP 2004-758266	20040324
R: AT, BE, CH, DE, DK, ES, PR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK			US 2003-457785P	P 20030325

PRIORITY APPLN. INFO.:

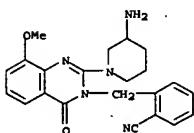
WO 2004-US9217 W 20040324

OTHER SOURCE(S): MARPAT 141:309639  
 GI

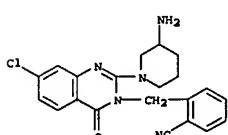


AB Dipeptidyl peptidase IV inhibitors I (Q = CO, SO, SO<sub>2</sub>, C:NRS; R1 = ZR6; Z = moiety providing 1-6 atom separation between R6 and ring; R2 =

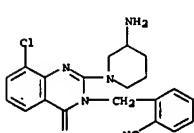
L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 RN 769157-56-4 CAPLUS  
 CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-8-methoxy-4-oxo-3(4H)-quinazolinyl)methyl]- (9CI) (CA INDEX NAME)



RN 769157-57-5 CAPLUS  
 CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-7-chloro-4-oxo-3(4H)-quinazolinyl)methyl]- (9CI) (CA INDEX NAME)



RN 769157-58-6 CAPLUS  
 CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-8-chloro-4-oxo-3(4H)-quinazolinyl)methyl]- (9CI) (CA INDEX NAME)



RN 769157-59-7 CAPLUS  
 CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-6-fluoro-4-oxo-3(4H)-quinazolinyl)methyl]- (9CI) (CA INDEX NAME)

Habte

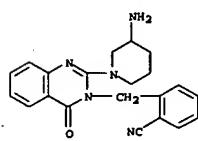
L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 (substituted)3-7-membered ring; R3,R4 = taken together form a (substituted)5-6-membered ring; R5 = H, (substituted)alkyl, cycloalkyl, etc.; R6 = (substituted)C3-7-cycloalkyl or aryl are disclosed. Thus, 2-[(2-(3-amino-1-piperidinyl)-6,7-dimethoxy-4-oxo-4H-quinazolin-3-ylmethyl)benzonitrile (I; R1 = 2-cyanophenylmethyl; R2 = 3-amino-1-piperidinyl-1-yl; R3,R4 = dimethoxyphenyl) was synthesized. This compd. exhibited enhanced stability in rat liver microsomes.

IT 769157-54-2P 769157-55-3P 769157-56-4P  
 769157-57-5P 769157-58-6P 769157-59-7P  
 769157-60-0P 769157-61-1P 769157-62-2P  
 769157-63-3P 769157-65-5P 769157-67-7P  
 769157-69-9P 769157-71-3P 769157-73-5P  
 769157-77-9P 769157-79-1P 769157-80-4P  
 769157-81-5P 769157-82-6P 769157-83-7P  
 769157-84-8P 769157-85-9P 769157-86-0P  
 769157-87-1P 769157-88-2P 769157-89-3P  
 769157-91-7P 769157-92-8P 769157-93-9P  
 769157-94-0P 769157-95-1P 769158-01-2P  
 769158-02-3P 769158-03-4P 769158-04-5P  
 769158-05-6P 769158-06-7P 769158-14-7P

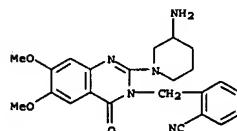
RL: BSV (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (dipeptidyl peptidase inhibitors)

RN 769157-54-2 CAPLUS

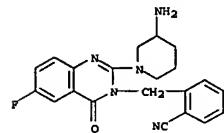
CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-4-oxo-3(4H)-quinazolinyl)methyl]- (9CI) (CA INDEX NAME)



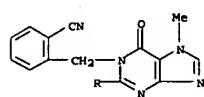
RN 769157-55-3 CAPLUS  
 CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-6,7-dimethoxy-4-oxo-3(4H)-quinazolinyl)methyl]- (9CI) (CA INDEX NAME)



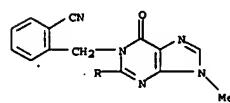
L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 769157-60-0 CAPLUS  
 CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-6,7-dihydro-7-methyl-6-oxo-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)

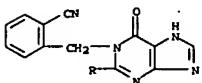


RN 769157-61-1 CAPLUS  
 CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-6,9-dihydro-9-methyl-6-oxo-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)



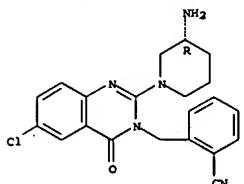
RN 769157-62-2 CAPLUS  
 04/24/2006

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-6,7-dihydro-6-oxo-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)



RN 769157-63-3 CAPLUS  
 CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-6-chloro-4-oxo-3(4H)-quinazolinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



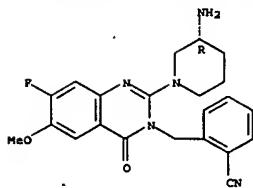
RN 769157-65-5 CAPLUS  
 CN Benzonitrile,  
 2-[(2-((3R)-3-amino-1-piperidinyl)-7-fluoro-6-methoxy-4-oxo-3(4H)-quinazolinyl)methyl], mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 769157-64-4  
 CMP C22 H22 F N5 O2

Absolute stereochemistry.

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2

CRN 76-05-1  
 CMP C2 H P3 O2



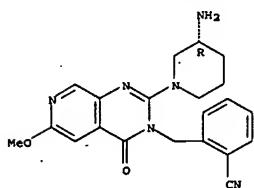
RN 769157-67-7 CAPLUS  
 CN Benzonitrile,  
 2-[(2-((3R)-3-amino-1-piperidinyl)-6-methoxy-4-oxopyrido[3,4-d]pyrimidin-3(4H)-yl)methyl], mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 769157-66-6  
 CMP C21 H22 N6 O2

Absolute stereochemistry.

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2

CRN 76-05-1  
 CMP C2 H P3 O2

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CRN 76-05-1  
 CMP C2 H F3 O2

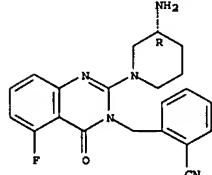


RN 769157-71-3 CAPLUS  
 CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-5-fluoro-4-oxo-3(4H)-quinazolinyl)methyl], mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 769157-70-2  
 CMP C21 H20 F N5 O

Absolute stereochemistry.



CM 2

CRN 76-05-1  
 CMP C2 H P3 O2



RN 769157-73-5 CAPLUS  
 CN Benzonitrile, 2-[(5-((3R)-3-amino-1-piperidinyl)-1,7-dihydro-1-methyl-7-oxo-6H-1,2,3-triazolo[4,5-d]pyrimidin-6-yl)methyl], mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

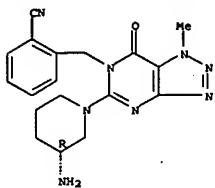
04/24/2006

CM 2

Habte

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
 CRN 769157-72-4  
 CMF C18 H20 N8 O

Absolute stereochemistry.



CM 2

CRN 76-05-1  
 CMF C2 H F3 O2



RN 769157-77-9 CAPLUS  
 CN Benzonitrile,  
 2-[(2-((3R)-3-amino-1-piperidinyl)-5,6,7,8-tetrahydro-4-oxo-3(4H)-quinazolinyl)methyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

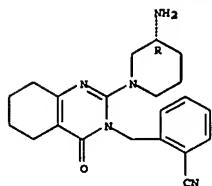
CM 1

CRN 769157-76-8  
 CMF C21 H25 N5 O

Absolute stereochemistry.

(Continued)

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2

CRN 76-05-1  
 CMF C2 H F3 O2



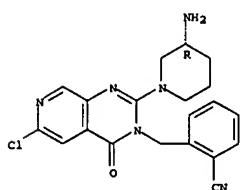
RN 769157-79-1 CAPLUS  
 CN Benzonitrile,  
 2-[(2-((3R)-3-amino-1-piperidinyl)-6-chloro-4-oxopyrido(3,4-d)pyrimidin-3(4H)-yl)methyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 769157-78-0  
 CMF C20 H19 Cl N6 O

Absolute stereochemistry.

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



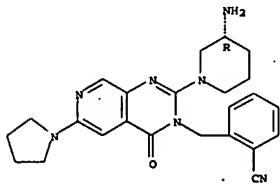
CM 2

CRN 76-05-1  
 CMF C2 H F3 O2



RN 769157-80-4 CAPLUS  
 CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-4-oxo-6-(1-pyrrolidinyl)pyrido(3,4-d)pyrimidin-3(4H)-yl)methyl]- (9CI) (CA INDEX NAME)

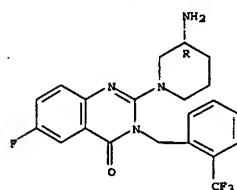
Absolute stereochemistry.



RN 769157-81-5 CAPLUS  
 CN 4(3H)-Quinazolinone, 2-[(3R)-3-amino-1-piperidinyl]-6-fluoro-3-[(2-trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

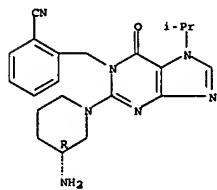
Absolute stereochemistry.

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

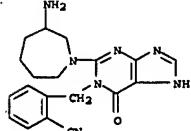


RN 769157-82-6 CAPLUS  
 CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-6,7-dihydro-7-(1-methylethyl)-6-oxo-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 769157-83-7 CAPLUS  
 CN Benzonitrile,  
 2-[(2-(3-aminohexahydro-1H-sazepin-1-yl)-6,7-dihydro-6-oxo-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)

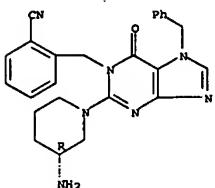


RN 769157-84-8 CAPLUS  
 CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-6,7-dihydro-6-oxo-7-(phenylimethyl)-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

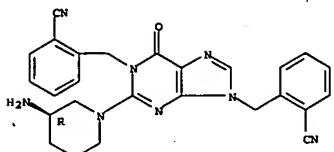
(Continued)

Absolute stereochemistry.



RN 769157-85-9 CAPLUS  
CN Benzonitrile, 2,2'-(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-1H-purine-1,9(6H)-dihydro]bis(methylene))bis- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

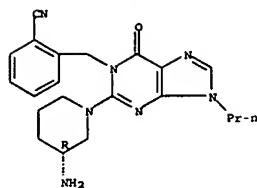


RN 769157-86-0 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6,9-dihydro-6-oxo-9-propyl-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

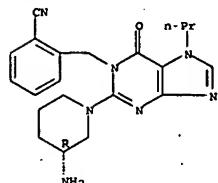
L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 769157-87-1 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6,7-dihydro-6-oxo-7-propyl-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

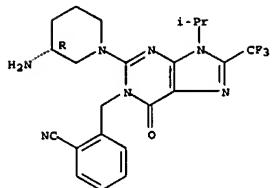


RN 769157-88-2 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6,9-dihydro-9-(1-methylethyl)-6-oxo-8-(trifluoromethyl)-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

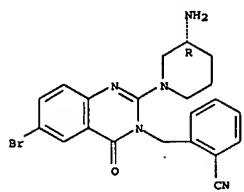
L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 769157-89-3 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-bromo-4-oxo-3(4H)-quinazolinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 769157-91-7 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-pyrrolidinyl]-6-bromo-4-oxo-3(4H)-quinazolinyl)methyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

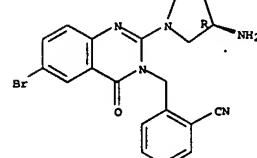
CM 1

CRN 769157-90-6  
CMP C20 H18 Br N5 O

Absolute stereochemistry.

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

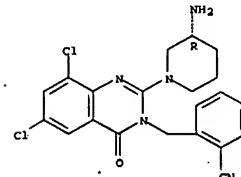


CM 2

CRN 76-05-1  
CMP C2 H P3 O2

RN 769157-92-8 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6,8-dichloro-4-oxo-3(4H)-quinazolinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

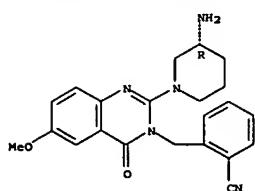


RN 769157-93-9 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-methoxy-4-oxo-3(4H)-quinazolinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

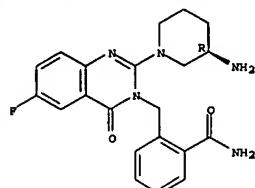
L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN.

(Continued)



RN 769157-94-0 CAPLUS  
 CN Benzamide, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-fluoro-4-oxo-3(4H)-quinazolinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

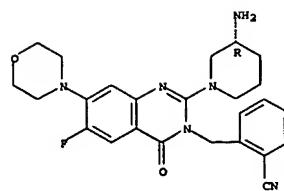


RN 769157-95-1 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-fluoro-7-(4-morpholinyl)-4-oxo-3(4H)-quinazolinyl)methyl] - (9CI) (CA INDEX NAME)

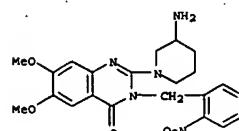
Absolute stereochemistry.

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN.

(Continued)

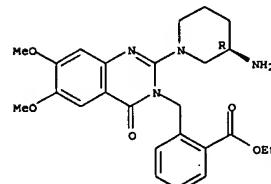


RN 769158-01-2 CAPLUS  
 CN 4(3H)-Quinazolinone, 2-(3-amino-1-piperidinyl)-6,7-dimethoxy-3-[(2-nitrophenyl)methyl] - (9CI) (CA INDEX NAME)



RN 769158-02-3 CAPLUS  
 CN Benzoic acid,  
 2-[(2-[(3R)-3-amino-1-piperidinyl]-6,7-dimethoxy-4-oxo-3(4H)-quinazolinyl)methyl], ethyl ester (9CI) (CA INDEX NAME)

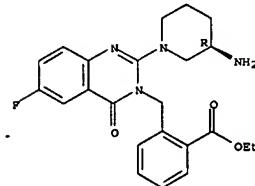
Absolute stereochemistry.



RN 769158-03-4 CAPLUS

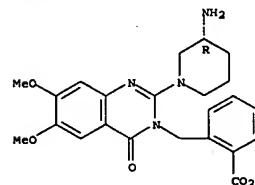
L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 CN Benzoic acid, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-fluoro-4-oxo-3(4H)-quinazolinyl)methyl], ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 769158-04-5 CAPLUS  
 CN Benzoic acid,  
 2-[(2-[(3R)-3-amino-1-piperidinyl]-6,7-dimethoxy-4-oxo-3(4H)-quinazolinyl)methyl] - (9CI) (CA INDEX NAME)

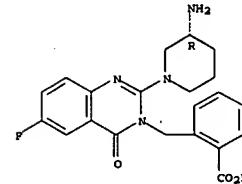
Absolute stereochemistry.



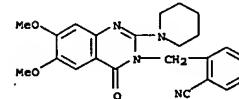
RN 769158-05-6 CAPLUS  
 CN Benzoic acid, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-fluoro-4-oxo-3(4H)-quinazolinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

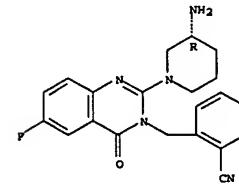


RN 769158-06-7 CAPLUS  
 CN Benzonitrile, 2-[(6,7-dimethoxy-4-oxo-2-(1-piperidinyl)-3(4H)-quinazolinyl)methyl] - (9CI) (CA INDEX NAME)



RN 769158-14-7 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-fluoro-4-oxo-3(4H)-quinazolinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

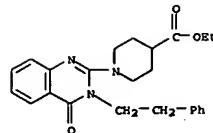


L4 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2004:211993 CAPLUS  
 DOCUMENT NUMBER: 140:264510  
 TITLE: 4-Oxo-quinazoline agonist ligands for the liver X nuclear receptor and their use in treatment of disorders of lipid metabolism  
 INVENTOR(S): Kober, Ingo; Albers, Michael; Koegl, Manfred; Blume, Beatrix; Deuschle, Ulrich; Kremsner, Claus  
 PATENT ASSIGNEE(S): Phenex Pharmaceuticals A.-G., Germany  
 SOURCE: Eur. Pat. Appl., 85 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1398032	A1	20040317	EP 2003-20417	20030910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
EP 1407774	A1	20040414	EP 2002-20255	20020910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRIORITY APPLN. INFO.:			EP 2002-20255	A 20020910

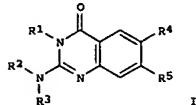
OTHER SOURCE(S): MARPAT 140:264510  
 AB 4-Oxo-quinazoline ligands for liver X receptors (LXR receptors, LXR $\alpha$ /NR1 H3 and LXR $\beta$ /NR1H2) acting as selective agonists of the receptor are described. The invention further relates to the treatment of diseases and/or conditions through binding of said nuclear receptors and selective agonistic effects by said compds. and the production of medicaments containing said compds. In particular the compds. are useful in the treatment of hypercholesterolemia, obesity or other diseases associated with elevated lipoprotein (LDL) levels. Reporter gene methods of screening for effective agonists of the receptor are described.  
 IT 671211-38-4  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 I: 4-Oxo-quinazoline agonist ligands for liver X nuclear receptor and their use in treatment of disorders of lipid metabolism  
 RN 671211-38-4 CAPLUS  
 CN 4-Piperidinocarboxylic acid, 1-[3,4-dihydro-4-oxo-3-(2-phenylethyl)-2-quinazolinyl]-, ethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

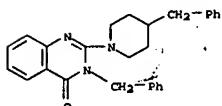


REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

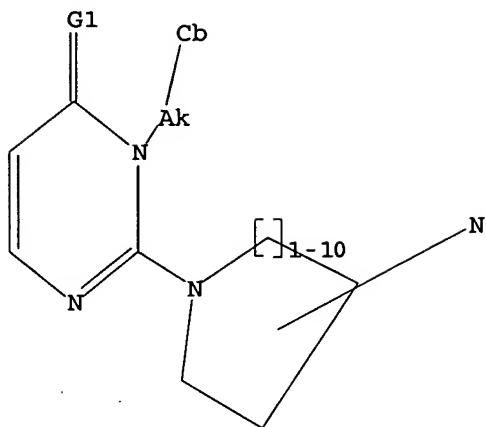
L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2002:543605 CAPLUS  
 DOCUMENT NUMBER: 138:106649  
 TITLE: Solid-phase synthesis of quinazolin-4(3H)-ones with three-points diversity  
 AUTHOR(S): Kesavani, A. P.; Srivastava, G. K.; Rastogi, S. K.; Kundu, B.  
 CORPORATE SOURCE: Medicinal Chemistry Division, Central Drug Research Institute, Lucknow, 226 001, India  
 SOURCE: Tetrahedron Letters (2002), 43(32), 5579-5581  
 CODEN: TELEAY; ISSN: 0040-4039  
 PUBLISHER: Elsevier Science Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 138:106649  
 GI



AB A versatile method for the solid-phase synthesis of differentially substituted quinazolin-4(3H)-ones I (R1 = Et, Ph, PhCH<sub>2</sub>; R2 = Bu, R3 = Me; R2R3N = N-methylpiperazine, 4-benzylpiperidino, morpholino; R4 = R5 = H, R4R5 = CH:CHCH:CH) was developed using immobilized arylguanidines. The latter were obtained by treating the amino group of polymer-linked aminoaryl amide with isothiocyanates R1NCS followed by coupling of resulting thioureas with secondary amines R3NR4. Under mild acidic conditions, these immobilized arylguanidines underwent cyclization/polymer matrix cleavage to give I in high yields and purities.  
 IT 485402-04-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (solid-phase synthesis of (amino)quinazolinones with three points of diversity from aminoaryl carboxylic acids, isothiocyanates, and secondary amines)  
 RN 485402-04-8 CAPLUS  
 CN 4(3H)-Quinazolinone, 3-(phenylmethyl)-2-[4-(phenylmethyl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 373 TO ITERATE

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SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

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PROJECTED ANSWERS: 6 TO 266
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SEARCH TIME: 00.00.01
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FILE LAST UPDATED: 23 Apr 2006 (20060423/ED)

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L4 2 L3

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L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2005:135412 CAPLUS  
DOCUMENT NUMBER: 142:240442

TITLE: Preparation of pyrimidinones as dipeptidyl peptidase IV (DPP-IV) inhibitors  
INVENTOR(S): Feng, Jun; Gwaltney, Stephen L.; Ili; Kaldor, Stephen W.; Stafford, Jeffrey A.; Wallace, Michael B.; Zhang, Zhiyuan  
PATENT ASSIGNEE(S): Syrrx, Inc., USA  
SOURCE: Eur. Pat. Appl., 102 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1506967	A1	20050216	EP 2004-254864	20040812
R: AT, BE, CH, DE, DK, ES, PR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
AU 2004265341	A1	20050224	AU 2004-265341	20040812
CA 2535619	AA	20050224	CA 2004-2535619	20040812
WO 2005016911	A1	20050224	WO 2004-US26265	20040812
M: AE, AL, AM, AT, AU, AZ, BA, BR, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW: BW, GH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SR, SI, SK, TR, BP, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TG				
US 2005065148	A1	20050324	US 2004-918318	20040812
US 2005070530	A1	20050331	US 2004-917955	20040812
US 2005070531	A1	20050331	US 2004-918186	20040812
US 2005070535	A1	20050331	US 2004-918317	20040812
US 2005070706	A1	20050331	US 2004-918326	20040812
US 2005075330	A1	20050407	US 2004-918327	20040812
JP 2005064041	A2	20050310	JP 2004-263071	20040813
US 2003-495238P	P	US 2003-495238P	P 20030813	
WO 2004-US26265	M	WO 2004-US26265	M 20040812	

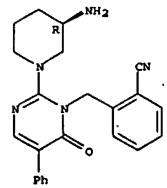
PRIORITY APPLN. INFO.: MARPAT 142:240442  
GI

OTHER SOURCE(S):

Other Source: MARPAT 142:240442

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-phenyl-1-(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

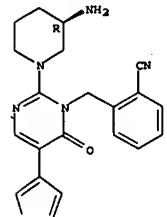
Absolute stereochemistry.



RN 844842-51-9 CAPLUS

CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(3-furanyl)-6-oxo-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

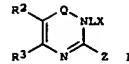


RN 844842-53-1 CAPLUS

CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(2-fluorophenyl)-6-oxo-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

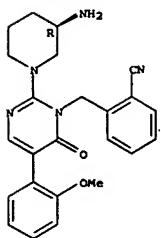
Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



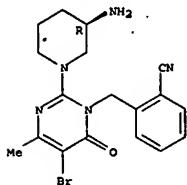
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 844842-60-0 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-bromo-4-methyl-6-oxo-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

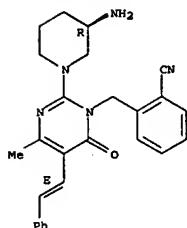


RN 844842-62-2 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-4-methyl-6-oxo-5-phenyl-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

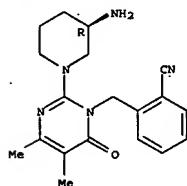
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 844842-68-8 CAPLUS  
 CN Benzonitrile,  
 2-[(2-[(3R)-3-amino-1-piperidinyl]-4,5-dimethyl-6-oxo-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

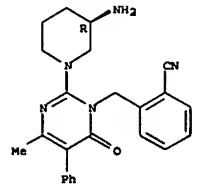


RN 844842-70-2 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-ethyl-6-oxo-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

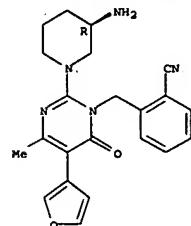
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 844842-64-4 CAPLUS  
 CN Benzonitrile,  
 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(3-furanyl)-4-methyl-6-oxo-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 844842-66-6 CAPLUS  
 CN Benzonitrile,  
 2-[(2-[(3R)-3-amino-1-piperidinyl]-4-methyl-6-oxo-5-[(1E)-2-phenylethenyl]-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

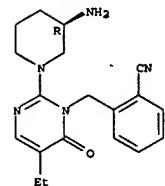
Absolute stereochemistry.  
 Double bond geometry as shown.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

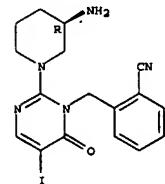
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



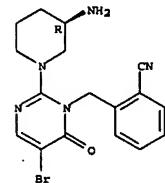
RN 844842-74-6 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-iodo-6-oxo-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 844842-76-8 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-bromo-6-oxo-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

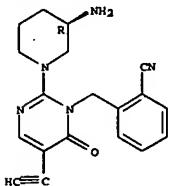


RN 844842-78-0 CAPLUS

04/24/2006

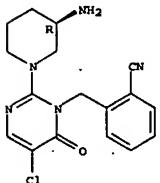
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-ethynyl-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 844842-79-1 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-chloro-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

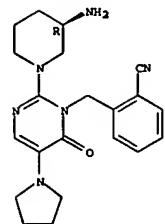
Absolute stereochemistry.



RN 844842-80-4 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-(1-pyrrolidinyl)-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

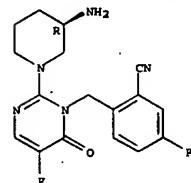
Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 844842-81-5 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-5-fluoro- (9CI) (CA INDEX NAME)

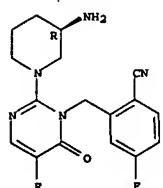
Absolute stereochemistry.



RN 844842-82-6 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro- (9CI) (CA INDEX NAME)

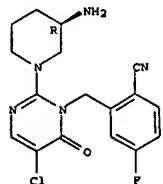
Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



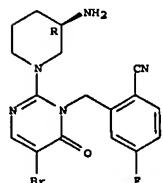
RN 844842-83-7 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-chloro-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 844842-84-8 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-bromo-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

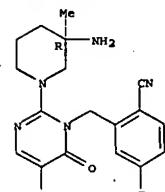


RN 844842-85-9 CAPLUS

Habte

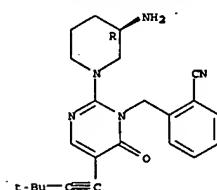
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-3-methyl-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 844842-87-1 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(3,3-dimethyl-1-butynyl)-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

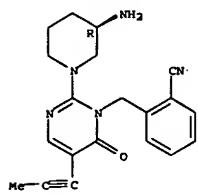


RN 844842-88-2 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-(1-propynyl)-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

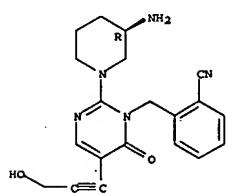
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 844842-89-3 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(3-hydroxy-1-propynyl)-6-oxo-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

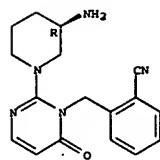
Absolute stereochemistry.



RN 844842-90-6 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

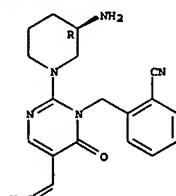
Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 844842-91-7 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-ethenyl-6-oxo-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

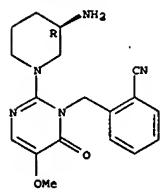
Absolute stereochemistry.



RN 844842-92-8 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-methoxy-6-oxo-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

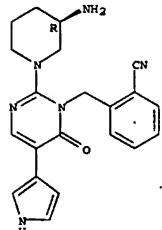
Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 844842-93-9 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-(1H-pyrrol-3-yl)-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

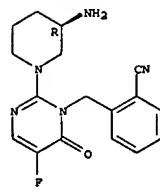
Absolute stereochemistry.



RN 844842-94-0 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

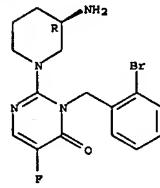
Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 844842-95-1 CAPLUS  
CN 4(3H)-Pyrimidinone, 2-[(3R)-3-amino-1-piperidinyl]-3-[(2-bromophenyl)methyl]-5-fluoro- - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

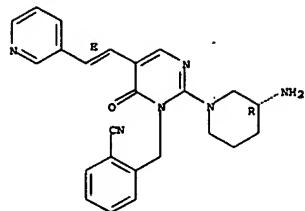


RN 844842-96-2 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-[(1E)-2-(3-pyridinyl)ethenyl]-1(6H)-pyrimidinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.

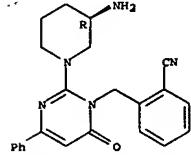
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 844842-97-3 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-4-phenyl-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

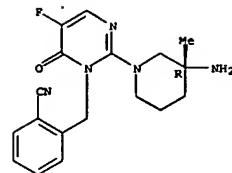


RN 844842-98-4 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-3-methyl-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

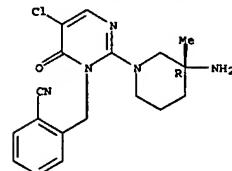
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



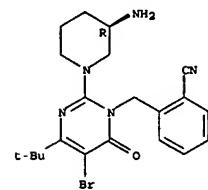
RN 844842-99-5 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-3-methyl-1-piperidinyl]-5-chloro-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 844843-00-1 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-bromo-4-(1,1-dimethylethyl)-6-oxo-1(6H)-pyrimidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



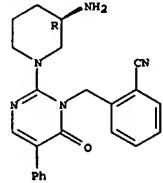
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 844843-01-2 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-phenyl-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-48-4  
CMP C23 H23 N5 O

Absolute stereochemistry.



CM 2

CRN 76-05-1  
CMP C2 H P3 O2

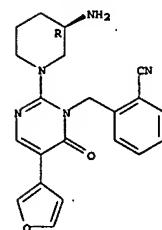
RN 844843-02-3 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(3-furanyl)-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-51-9  
CMP C21 H21 N5 O2

Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2

CRN 76-05-1  
CMP C2 H P3 O2

RN 844843-03-4 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-(2-fluorophenyl)-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

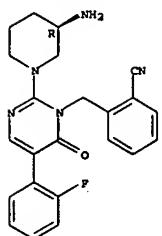
CM 1

CRN 844842-53-1  
CMP C23 H22 F N5 O

Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



CM 2

CRN 76-05-1  
CMP C2 H F3 O2

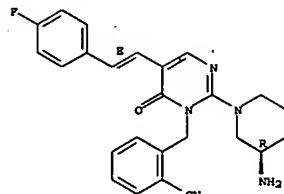
RN 844843-04-5 CAPLUS  
 CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-5-[(1E)-2-(4-fluorophenyl)ethenyl]-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-56-4  
CMP C25 H24 F N5 O

Absolute stereochemistry.  
 Double bond geometry as shown.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2

CRN 76-05-1  
CMP C2 H F3 O2

RN 844843-06-7 CAPLUS  
 CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-5-(2-methoxyphenyl)-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

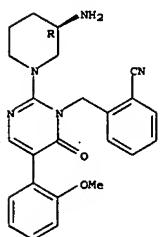
CM 1

CRN 844842-58-6  
CMP C24 H25 N5 O2

Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



CM 2

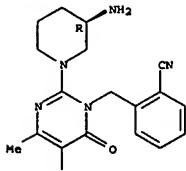
CRN 76-05-1  
CMP C2 H F3 O2

RN 844843-08-9 CAPLUS  
 CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-5-bromo-4-methyl-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-60-0  
CMP C18 H20 Br N5 O

Absolute stereochemistry.



Habte

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CM 2

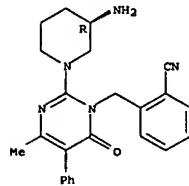
CRN 76-05-1  
CMP C2 H F3 O2

RN 844843-09-0 CAPLUS  
 CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-4-methyl-6-oxo-5-phenyl-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-62-2  
CMP C24 H25 N5 O

Absolute stereochemistry.



CM 2

CRN 76-05-1  
CMP C2 H F3 O2

RN 844843-10-3 CAPLUS  
 CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-5-(3-furanyl)-4-methyl-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

04/24/2006

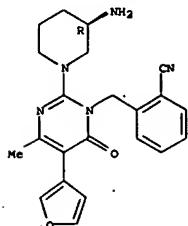
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

CM 1

CRN 844842-64-4  
CNF C22 H23 N5 O2

Absolute stereochemistry.



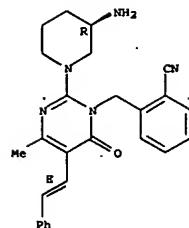
CM 2

CRN 76-05-1  
CNF C2 H F3 O2RN 844843-11-4 CAPLUS  
CN Benzonitrile,  
2-[(2-[(3R)-3-amino-1-piperidinyl]-4-methyl-6-oxo-5-((1E)-2-phenylethyl)-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-66-6  
CNF C26 H27 N5 OAbsolute stereochemistry.  
Double bond geometry as shown.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2

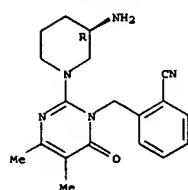
CRN 76-05-1  
CNF C2 H F3 O2RN 844843-12-5 CAPLUS  
CN Benzonitrile,  
2-[(2-[(3R)-3-amino-1-piperidinyl]-4,5-dimethyl-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-68-8  
CNF C19 H23 N5 O

Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



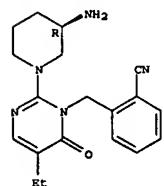
CM 2

CRN 76-05-1  
CNF C2 H F3 O2RN 844843-13-6 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-ethyl-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-70-2  
CNF C19 H23 N5 O

Absolute stereochemistry.



CM 2

Habte

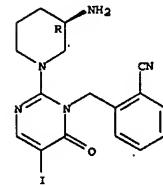
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CRN 76-05-1  
CNF C2 H F3 O2RN 844843-14-7 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-iodo-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-74-6  
CNF C17 H18 I N5 O

Absolute stereochemistry.



CM 2

CRN 76-05-1  
CNF C2 H F3 O2RN 844843-15-8 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-bromo-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

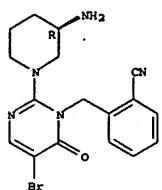
CRN 844842-76-8  
CNF C17 H18 Br N5 O

04/24/2006

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

Absolute stereochemistry.



CM 2

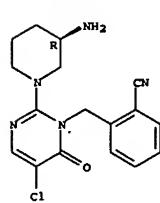
CRN 76-05-1  
CMP C2 H P3 O2RN 844843-16-9 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-chloro-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-79-1  
CMP C17 H18 Cl N5 O

Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2

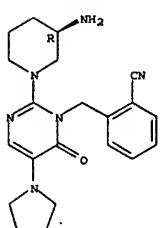
CRN 76-05-1  
CMP C2 H P3 O2RN 844843-17-0 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-(1-pyrrolidinyl)-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-80-4  
CMP C21 H26 N6 O

Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



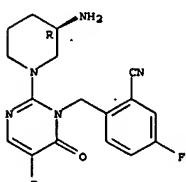
CM 2

CRN 76-05-1  
CMP C2 H P3 O2RN 844843-19-2 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-5-fluoro-, trifluoroacetate (9CI) (CA INDEX NAME)

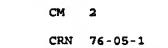
CM 1

CRN 844842-81-5  
CMP C17 H17 F2 N5 O

Absolute stereochemistry.



L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



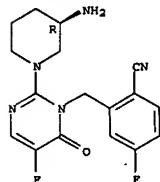
CM 2

CRN 76-05-1  
CMP C2 H P3 O2RN 844843-21-6 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-82-6  
CMP C17 H17 F2 N5 O

Absolute stereochemistry.



CM 2

CRN 76-05-1  
CMP C2 H P3 O2RN 844843-22-7 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-chloro-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

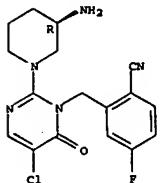
04/24/2006

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

CRN 844842-83-7  
 CMF C17 H17 Cl F N5 O

Absolute stereochemistry.



CM 2

CRN 76-05-1  
 CMF C2 H F3 O2



RN 844843-23-8 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-bromo-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro-, trifluoroacetate (9CI) (CA INDEX NAME)

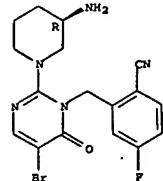
CM 1

CRN 844842-84-8  
 CMF C17 H17 Br F N5 O

Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

(Continued)



CM 2

CRN 76-05-1  
 CMF C2 H F3 O2



RN 844843-24-9 CAPLUS  
 CN Benzonitrile, 2-[(2-((3R)-3-amino-3-methyl-1-piperidinyl)-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-4-fluoro-, trifluoroacetate (9CI) (CA INDEX NAME)

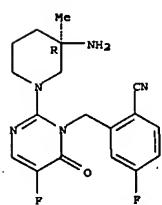
CM 1

CRN 844842-85-9  
 CMF C18 H19 F2 N5 O

Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



CM 2

CRN 76-05-1  
 CMF C2 H F3 O2

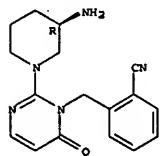


RN 844843-26-1 CAPLUS  
 CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-5-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-90-6  
 CMF C17 H19 N5 O

Absolute stereochemistry.



CM 2

CRN 76-05-1

Habte

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

(Continued)

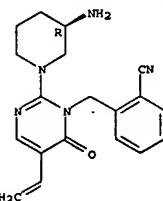


RN 844843-27-2 CAPLUS  
 CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-5-ethenyl-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-91-7  
 CMF C19 H21 N5 O

Absolute stereochemistry.



CM 2

CRN 76-05-1  
 CMF C2 H F3 O2



RN 844843-28-3 CAPLUS  
 CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-5-methoxy-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

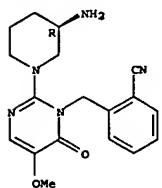
CRN 844842-92-8  
 CMF C18 H21 N5 O2

04/24/2006

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

Absolute stereochemistry.



CM 2

CRN 76-05-1  
CMP C2 H P3 O2RN 844843-29-4 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

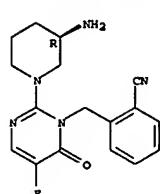
CM 1

CRN 844843-94-0  
CMP C17 H18 F N5 O

Absolute stereochemistry.

(Continued)

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2

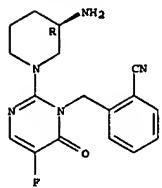
CRN 76-05-1  
CMP C2 H P3 O2RN 844843-10-7 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-, (2R,3R)-2,3-dihydroxybutanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 844842-94-0  
CMP C17 H18 F N5 O

Absolute stereochemistry.

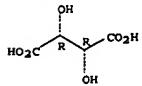
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



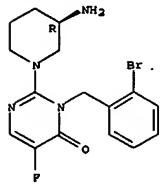
CM 2

CRN 87-69-4  
CMP C4 H6 O6

Absolute stereochemistry.

RN 844843-31-8 CAPLUS  
CN 4(3H)-Pyrimidinone, 2-[(3R)-3-amino-1-piperidinyl]-3-[(2-bromophenyl)methyl]-5-fluoro-, hydrochloride (9CI) (CA INDEX NAME)

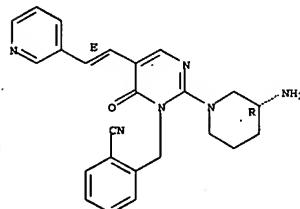
Absolute stereochemistry.



● x HCl

RN 844843-32-9 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-[(1E)-2-(3-

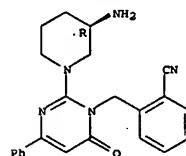
Habte

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
pyridinyl]ethenyl]-1(6H)-pyrimidinyl)methyl]-, hydrochloride (9CI) (CA INDEX NAME)Absolute stereochemistry.  
Double bond geometry as shown.

● x HCl

RN 844843-33-0 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-4-phenyl-1(6H)-pyrimidinyl)methyl]-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



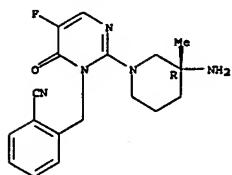
● x HCl

RN 844843-34-1 CAPLUS  
CN Benzonitrile, 2-[(2-[(3R)-3-amino-3-methyl-1-piperidinyl]-5-fluoro-6-oxo-1(6H)-pyrimidinyl)methyl]-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

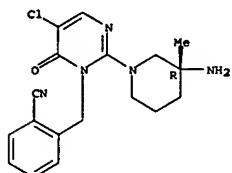
(Continued)



• x HCl

RN 844843-35-2 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-3-methyl-1-piperidinyl]-5-chloro-6-oxo-1(6H)-pyrimidinyl)methyl], hydrochloride (9CI) (CA INDEX NAME)

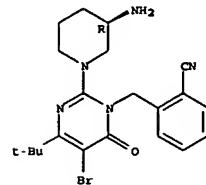
Absolute stereochemistry.



• x HCl

RN 844843-36-3 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-bromo-4-(1,1-dimethylethyl)-6-oxo-1(6H)-pyrimidinyl)methyl], trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

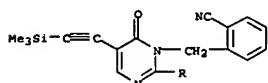
CRN 844843-00-1  
CMP C21 H26 Br N5 OL4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
Absolute stereochemistry.

CM 2

CRN 76-05-1  
OMP C2 H P3 O2

IT 844843-44-3P 844843-72-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of pyrimidinones as dipeptidyl peptidase IV inhibitors)  
 RN 844843-44-3 CAPLUS  
 CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-6-oxo-5-[(trimethylsilyl)ethynyl]-1(6H)-pyrimidinyl)methyl] (CA INDEX NAME)

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 844843-72-7 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-[(trimethylsilyl)ethynyl]-1(6H)-pyrimidinyl)methyl] (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2004-857326 CAPLUS  
DOCUMENT NUMBER: 141309639TITLE: Dipeptidyl peptidase inhibitors  
INVENTOR(S): Feng, Jun; Gwaltney, Stephen L.; Kaldor, Stephen W.; Stafford, Jeffrey A.; Wallace, Michael B.; Zheng, ZhiyuanPATENT ASSIGNEE(S): Syrrx, Inc., USA  
SOURCE: PCT Int. Appl., 244 pp.DOCUMENT TYPE: Patent  
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2004087053 A2 20041014 WO 2004-US9217 20040324

WO 2004087053 C2 20041111

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TZ, TM, TN, TR, TT, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, PR, GR, HU, IB, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CR, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG

CA 2518465 AA 20041014 CA 2004-2518465 20040324

US 2004242568 A1 20041202 US 2004-809636 20040324

US 2004242566 A1 20041202 US 2004-809638 20040324

US 2004259870 A1 20041223 US 2004-809637 20040324

US 2005004117 A1 20050106 US 2004-809635 20040324

EP 1608317 A2 20051228 EP 2004-758366 20040324

R: AT, BE, CH, DE, DK, ES, PR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK

PRIORITY APPLN. INFO.: US 2003-457785P P 20030325

WO 2004-US9217 W 20040324

OTHER SOURCE(S): MARPAT 141:309639

GI

R3  
 R4  
 R2  
 I

AB Dipeptidyl peptidase IV inhibitors I (Q = CO, SO, SO2, C:NR5; R1 = ZR6; Z = moiety providing 1-6 atom separation between R6 and ring; R2 = (substituted)3-7-membered ring; R3,R4 = taken together form a (substituted)5-6-membered ring; R5 = H, (substituted)alkyl, cycloalkyl, etc.; R6 = (substituted)C3-7-cycloalkyl or aryl) are disclosed. Thus, 2-(2-(3-aminopiperidin-1-yl)-6,7-dimethoxy-4-oxo-4H-quiazolin-3-

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 RN 769157-54-2P 769157-55-3P 769157-56-4P  
 CN Benzonitrile, 2-[(2-cyanophenylmethyl)-3-aminopiperidin-1-yl]- (R3,R4 = dimethoxyphenyl) was synthesized. This compd. exhibited enhanced stability in rat liver microsomes.

IT 769157-54-2P 769157-55-3P 769157-56-4P

769157-57-5P 769157-58-6P 769157-59-7P

769157-60-0P 769157-61-1P 769157-62-2P

769157-63-3P 769157-65-5P 769157-67-7P

769157-69-9P 769157-71-3P 769157-73-5P

769157-77-9P 769157-79-1P 769157-80-4P

769157-81-5P 769157-82-6P 769157-83-7P

769157-84-8P 769157-85-9P 769157-86-0P

769157-87-1P 769157-88-2P 769157-89-3P

769157-91-7P 769157-92-8P 769157-93-9P

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769158-02-3P 769158-03-4P 769158-04-5P

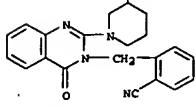
769158-05-6P 769158-14-7P

RL: BSI (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(dipeptidyl peptidase inhibitor)

RN 769157-54-2 CAPLUS

CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-4-oxo-3(4H)-quiazolinyl)methyl]- (9CI) (CA INDEX NAME)



RN 769157-55-3 CAPLUS

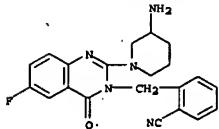
CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-6,7-dimethoxy-4-oxo-3(4H)-quiazolinyl)methyl]- (9CI) (CA INDEX NAME)



RN 769157-56-4 CAPLUS

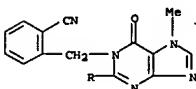
CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-8-methoxy-4-oxo-3(4H)-quiazolinyl)methyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



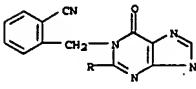
RN 769157-60-0 CAPLUS

CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-6,7-dihydro-7-methyl-6-oxo-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)



RN 769157-61-1 CAPLUS

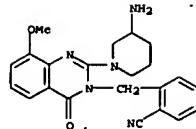
CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-6,9-dihydro-9-methyl-6-oxo-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)



RN 769157-62-2 CAPLUS

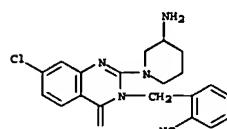
Habte

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



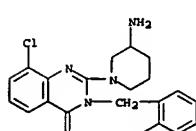
RN 769157-57-5 CAPLUS

CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-7-chloro-4-oxo-3(4H)-quiazolinyl)methyl]- (9CI) (CA INDEX NAME)



RN 769157-58-6 CAPLUS

CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-8-chloro-4-oxo-3(4H)-quiazolinyl)methyl]- (9CI) (CA INDEX NAME)

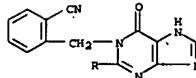


RN 769157-59-7 CAPLUS

CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-6-fluoro-4-oxo-3(4H)-quiazolinyl)methyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

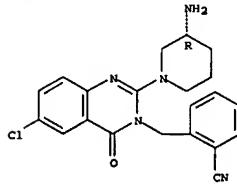
CN Benzonitrile, 2-[(2-(3-amino-1-piperidinyl)-6,7-dihydro-6-oxo-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)



RN 769157-63-3 CAPLUS

CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl)methyl]-6-chloro-4-oxo-3(4H)-quiazolinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 769157-65-5 CAPLUS

CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl)methyl]-7-fluoro-6-methoxy-4-oxo-3(4H)-quiazolinyl)methyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

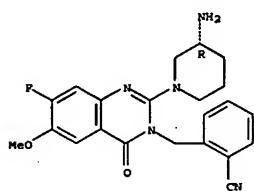
CRN 769157-64-4  
CMF C22 H22 F NS O2

Absolute stereochemistry.

04/24/2006

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



CM 2

CRN 76-05-1  
CMF C2 H P3 O2

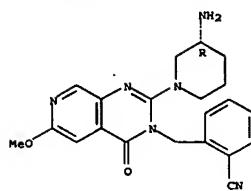
RN 769157-67-7 CAPLUS  
 CN Benzonitrile,  
 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-methoxy-4-oxopyrido[3,4-d]pyrimidin-3(4H)-yl)methyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 769157-66-6  
CMF C21 H22 N6 O2

Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2

CRN 76-05-1  
CMF C2 H P3 O2

RN 769157-69-9 CAPLUS  
 CN Benzonitrile, 2-[(6-[(3R)-3-amino-1-piperidinyl]-1,4-dihydro-1-methyl-4-oxo-5H-pyrazolo[3,4-d]pyrimidin-5-yl)methyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

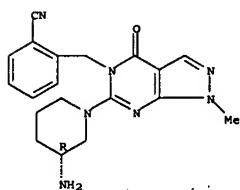
CM 1

CRN 769157-68-8  
CMF C19 H21 N7 O

Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



CM 2

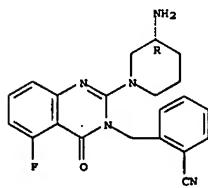
CRN 76-05-1  
CMF C2 H P3 O2

RN 769157-71-3 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-4-oxo-3(4H)-quinazolinyl)methyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 769157-70-2  
CMF C21 H20 F NS O

Absolute stereochemistry.



CM 2

Habte

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

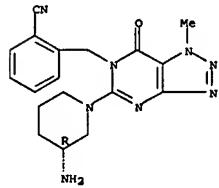
CRN 76-05-1  
CMF C2 H P3 O2

RN 769157-73-5 CAPLUS  
 CN Benzonitrile, 2-[(5-[(3R)-3-amino-1-piperidinyl]-1,7-dihydro-1-methyl-7-oxo-6H-1,2,3-triazolo[4,5-d]pyrimidin-6-yl)methyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 769157-72-4  
CMF C18 H20 N8 O

Absolute stereochemistry.



CM 2

CRN 76-05-1  
CMF C2 H P3 O2

RN 769157-77-9 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5,6,7,8-tetrahydro-4-oxo-3(4H)-quinazolinyl)methyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

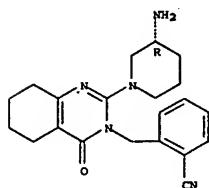
04/24/2006

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

CRN 769157-76-8  
CNP C21 H25 N5 O

Absolute stereochemistry.



CM 2

CRN 76-05-1  
CNP C2 H F3 O2RN 769157-79-1 CAPLUS  
CN Benzonitrile,  
2-[(2-((3R)-3-amino-1-piperidinyl)-6-chloro-4-oxopyrido[3,4-d]pyrimidin-3(4H)-yl)methyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 769157-78-0  
CNP C20 H19 Cl N6 O

Absolute stereochemistry.

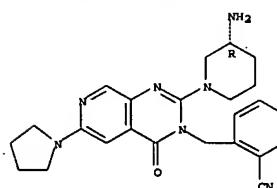
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

CRN 76-05-1

CM 2  
CRN 76-05-1  
CNP C2 H F3 O2RN 769157-80-4 CAPLUS  
CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-4-oxo-6-(1-pyrrolidinyl)pyrido[3,4-d]pyrimidin-3(4H)-yl)methyl]- (9CI) (CA INDEX NAME)

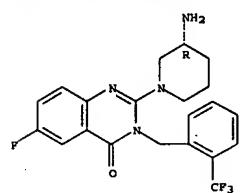
Absolute stereochemistry.

RN 769157-81-5 CAPLUS  
CN 4(SH)-Quinazolinone, 2-[(3R)-3-amino-1-piperidinyl]-6-fluoro-3-[(2-(trifluoromethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)

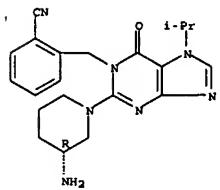
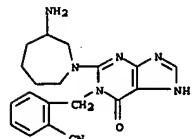
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

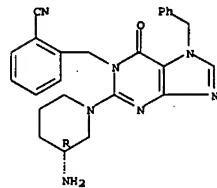
Absolute stereochemistry.

RN 769157-82-6 CAPLUS  
CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-6,7-dihydro-7-(1-methylthyl)-6-oxo-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)

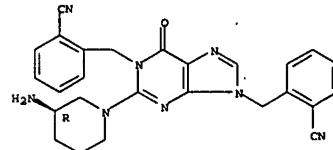
Absolute stereochemistry.

RN 769157-83-7 CAPLUS  
CN Benzonitrile,  
2-[(2-(3-aminohexahydro-1H-azepin-1-yl)-6,7-dihydro-6-oxo-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)RN 769157-84-8 CAPLUS  
CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-6,7-dihydro-6-oxo-7-L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
(phenylmethyl)-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)

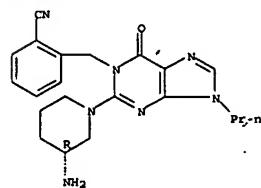
Absolute stereochemistry.

RN 769157-85-9 CAPLUS  
CN Benzonitrile, 2,2'-(2-((3R)-3-amino-1-piperidinyl)-6-oxo-1H-purine-1,9(6H)-dilobis(methylene))bis- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

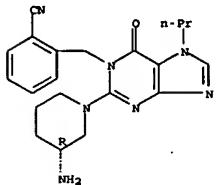
RN 769157-86-0 CAPLUS  
CN Benzonitrile, 2-[(2-((3R)-3-amino-1-piperidinyl)-6,9-dihydro-6-oxo-9-propyl-1H-purin-1-yl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



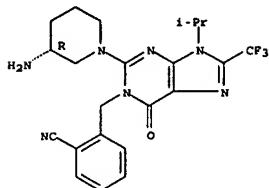
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 RN 769157-87-1 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6,7-dihydro-6-oxo-7-propyl-1H-purin-1-yl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 769157-88-2 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6,9-dihydro-9-(1-methylethyl)-6-oxo-8-(trifluoromethyl)-1H-purin-1-yl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

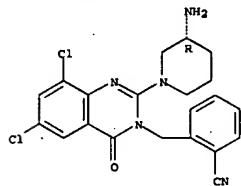


RN 769157-89-3 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-bromo-4-oxo-3(4H)-quinazolinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

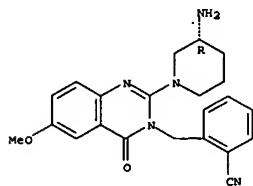
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 RN 769157-92-8 CAPLUS  
 CN Benzonitrile,  
 2-[(2-[(3R)-3-amino-1-piperidinyl]-6,8-dichloro-4-oxo-3(4H)-quinazolinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 769157-93-9 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-methoxy-4-oxo-3(4H)-quinazolinyl)methyl] - (9CI) (CA INDEX NAME)

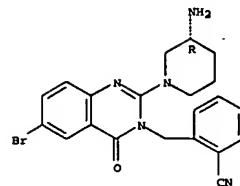
Absolute stereochemistry.



RN 769157-94-0 CAPLUS  
 CN Benzamide, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-fluoro-4-oxo-3(4H)-quinazolinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

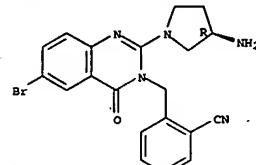


RN 769157-91-7 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-pyrrolidinyl]-6-bromo-4-oxo-3(4H)-quinazolinyl)methyl], mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 769157-90-6  
 CMF C20 H18 Br N5 O

Absolute stereochemistry.

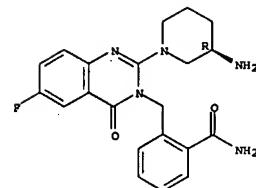


CM 2

CRN 76-05-1  
 CMF C2 H P3 O2

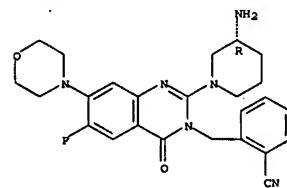


L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

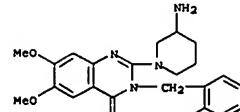


RN 769157-95-1 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-fluoro-7-(4-morpholinyl)-4-oxo-3(4H)-quinazolinyl)methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 769158-01-2 CAPLUS  
 CN 4(3H)-Quinazolinone, 2-(3-amino-1-piperidinyl)-6,7-dimethoxy-3-[(2-nitrophenyl)methyl] - (9CI) (CA INDEX NAME)



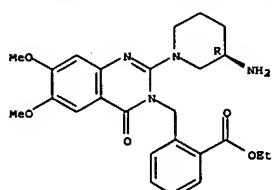
RN 769158-02-3 CAPLUS  
 CN Benzoic acid,  
 2-[(2-[(3R)-3-amino-1-piperidinyl]-6,7-dimethoxy-4-oxo-3(4H)-quinazolinyl)methyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

04/24/2006

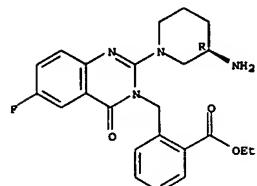
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)



RN 769158-03-4 CAPLUS  
 CN Benzoic acid, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-fluoro-4-oxo-3(4H)-quinazolinyl)methyl]-, ethyl ester (9CI) (CA INDEX NAME)

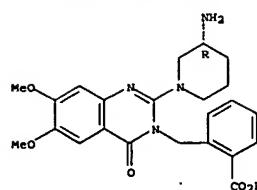
Absolute stereochemistry.



RN 769158-04-5 CAPLUS  
 CN Benzoic acid, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6,7-dimethoxy-4-oxo-3(4H)-quinazolinyl)methyl]- (9CI) (CA INDEX NAME)

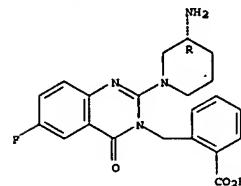
Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 769158-05-6 CAPLUS  
 CN Benzoic acid, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-fluoro-4-oxo-3(4H)-quinazolinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 769158-14-7 CAPLUS  
 CN Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-fluoro-4-oxo-3(4H)-quinazolinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

